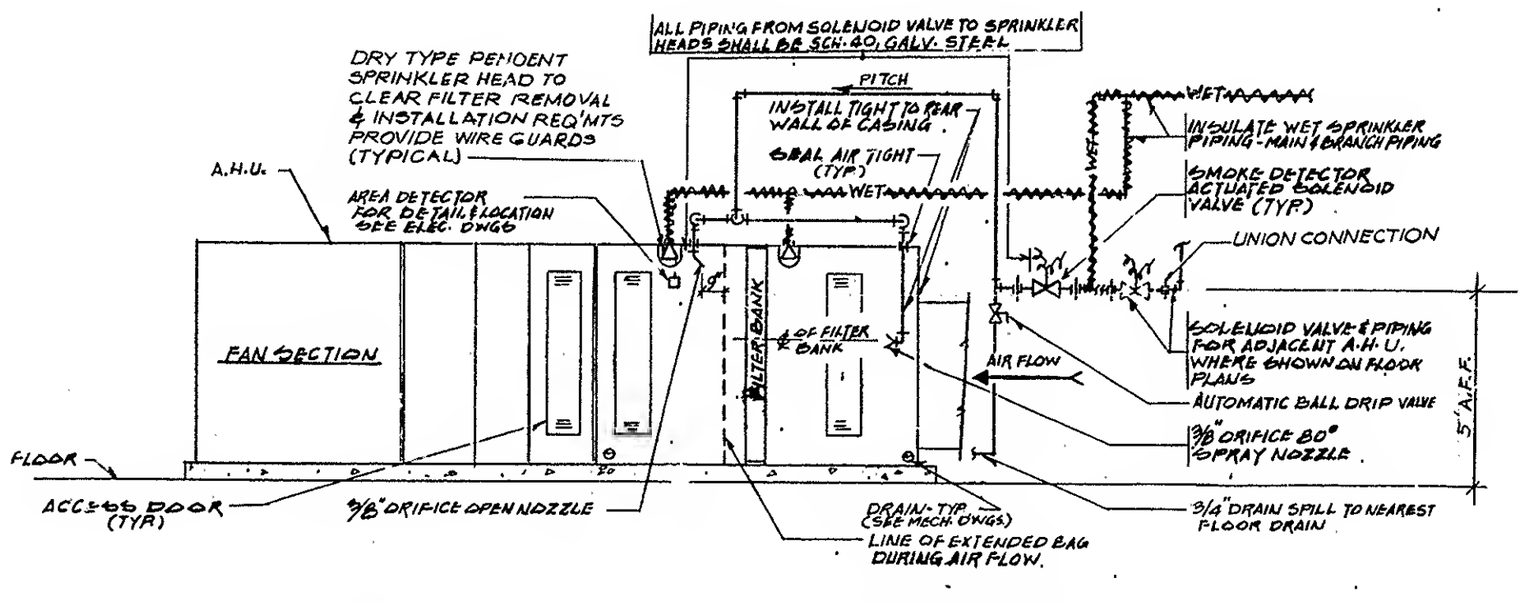
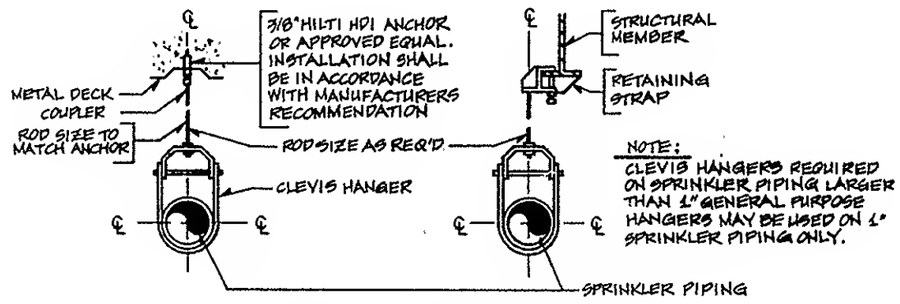


TYPICAL SCHEMATIC OF SPRINKLER PIPING AND HEADS FOR A.H.U. FILTERS

NO SCALE

SPRINKLER STAGING NOTES (TYPICAL FOR EACH SUBSTATION)

1. COORDINATE WITH ALL TRADES - SEE CONTRACT DRAWINGS CS-1 & M-2.
2. EXISTING SPRINKLER SYSTEM SERVING A.H.U. BEING REMOVED SHALL REMAIN OPERATIONAL UNTIL A.H.U. IS DEACTIVATED.
3. AFTER A.H.U. IS SET IN PLACE ON UPPER FLOOR INSTALL SPRINKLER SYSTEM UP TO POINT OF CONNECTION TO EXISTING. DO NOT TIE-IN TO EXISTING PIPING UNTIL A.H.U. IS READY FOR ACTIVATION.
4. THE CONTRACTOR SHALL SUBMIT DETAILED CONSTRUCTION PHASING PLAN(S), COORDINATED WITH ALL TRADES FOR APPROVAL PRIOR TO STARTING THE WORK UNDER THIS CONTRACT.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE BEFORE SHUTDOWNS OF EXISTING SYSTEMS BECOME NECESSARY.



TYPICAL HANGER DETAIL

N.T.S.

SCHEDULE OF MATERIALS

1. PIPING

COLD WATER PIPING

COLD WATER PIPING SHALL BE TYPE "TP" THREADLESS COPPER PIPE, CONFORMING TO ASTM B 302. AND FITTINGS SHALL BE CAST BRONZE FOR BRAZING, CONFORMING TO ANSI B16.18.

SPRINKLER PIPING

SCHEDULE 10 BLACK STEEL PIPE IS NOT PERMITTED

VICTAULIC SADDLE TYPE FITTINGS ARE NOT PERMITTED

2. SPRINKLER HEADS

SPRINKLERS IN THE AIR HANDLING UNITS SHALL BE AS FOLLOWS:
OPEN NOZZLE: MODEL F-800, 3/8" ORIFICE TEFLON COATED AS MANUF BY GRINNEL OR APPROVED EQUAL.
SPRAY NOZZLE: MODEL D3, 80° DEFLECTOR AND 3/8" ORIFICE, PROTECTOSPRAY. AND TEFLON COATED AS MANUFACTURED BY GRINNEL OR APPROVED EQUAL.
DRY PENDENT: MODEL G-3, 1/2" ORIFICE, 165° TEMP. RATING AS MANUFACTURED BY RELIABLE CORP. OR APPROVED EQUAL.
SPRINKLER HEADS IN CORRIDORS SHALL BE RELIABLE CORP. "G" PENDENT TYPES WITH 1/2" ORIFICE, 165° TEMP. RATING OR APPROVED EQUAL.

3. SOLENOID VALVE

SOLENOID VALVE SHALL BE NORMALLY CLOSED AUTOMATIC SWITCH CO. SERIES 8210 "GENERAL APPROVED EQUAL & SHALL BE ENERGIZED BY AC DETECTORS. VALVE SHALL HAVE BRASS BODY THE COIL INSULATION SHALL BE HIGH TEMPERAT INSULATION. THE ELECTRICAL RATINGS SHALL WITH THE SMOKE DETECTOR SYSTEM.